## IN THE CLAIMS

Claims 1 - 22 (Cancelled)

- 23. (Currently Amended) A method of producing a positive electrode active material for a non-aqueos electrolyte cell, comprising the sequential steps of:
  - ([[a]]1) mixing ingredients of a lithium composite manganese oxide;
  - ([[b]]2) molding the mixture under pressure; and
- ([[c]]3) sintering the molded mixture at a temperature not lower than 600°C and not higher than 850°C[[;]], wherein
- ([[1]]a) the positive electrode active material comprises lithium composite manganese oxide having a spinel structure whose primary particle diameter is not less than 0.05  $\mu$ m and not greater than 10  $\mu$ m forming an aggregate, and whose specific surface area measured by the BET method is not less than 0.2 m²/g and not greater than 2 m²/g;
- ([[2]]b) the non-aqueos electrolyte cell comprises a negative electrode having a material capable of reversively doping and dedoping lithium, wherein the material capable of reversively doping and dedoping lithium is at least one selected from the group consisting of a carbon material, metal lithium, lithium alloy, polyacene, and polypyrol;
- ([[3]]c) wherein the carbon material is at least one selected from the group consisting of pyrocarbon, coke, glassy carbon, organic polymer compound sintered body, and carbon fiber; and
- ([[4]] $\underline{d}$ ) wherein the lithium composite manganese oxide is expressed by a general formula Li<sub>x</sub>Mn<sub>2-y</sub>M<sub>y</sub>O<sub>4</sub>, wherein .09  $\leq$  x  $\leq$  1.4; 0<y<.3; and M is one or more materials selected from the group consisting of Ti, V, Cr, Fe, Co, Ni, and Al.

Response to August 24, 2005 Office Action Application No. 09/656,777

Page 3

- 24. (Previously Presented) The method of claim 23, wherein the spinel structure has a primary particle diameter that is not less than 0.1  $\mu$ m and not greater than 5  $\mu$ m.
- 25. (Previously Presented) The method of claim 23, wherein the spinel structure has a primary particle diameter that is not less than 0.5  $\mu m$  and not greater than 3  $\mu m$ .
- 26. (Previously Presented) The method of claim 23, further comprising pulverizing the sintered mixture.
- 27. (Previously Presented) The method of claim 23, wherein the non-aqueous electrolyte cell comprises a positive electrode including graphite and binder in addition to the positive electrode active material.
- 28. (Previously Presented) The method of claim 27, wherein the positive electrode comprising a metal foil and a positive electrode composite agent on said metal foil, said positive electrode composite agent containing the positive electrode active material and the binder dissolved in a solvent to create a slurry uniformly applied on said metal foil and dried.

Claims 29-34 (Cancelled)

35. (New) A method of producing a positive electrode active material for a non-aqueos electrolyte cell, comprising the sequence steps of:

Response to August 24, 2005 Office Action Application No. 09/656,777 Page 4

- (1) mixing ingredients of a lithium composite manganese oxide;
- (2) molding the mixture under pressure; and
- (3) sintering the molded mixture at a temperature not lower than 600°C and not higher than 850°C, wherein the positive electrode active material comprises lithium composite manganese oxide having a spinel structure whose primary particle diameter is not less than 0.05  $\mu$ m and not greater than 10  $\mu$ m forming an aggregate, and whose specific surface area measured by the BET method is not less than 0.2 m²/g and not greater than 2 m²/g.